

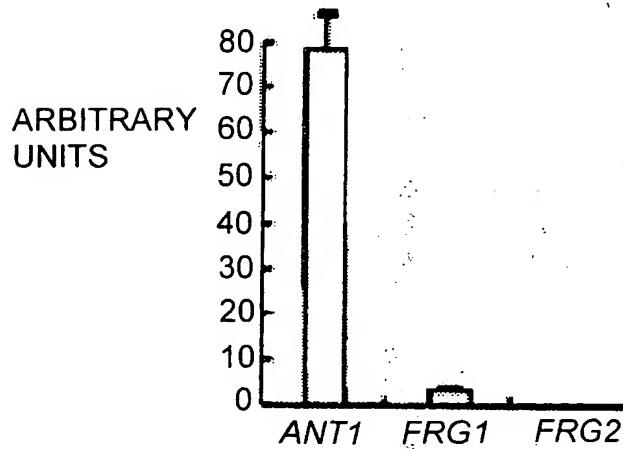


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Applicant(s): Tupler et al.

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METHODS OF DETECTING AND TREATING
FACIOSCAPULOHUMORAL MUSCULAR DYSTROPHY

EXPRESSION LEVEL IN NORMAL MUSCLE



MUSCLE EXPRESSION RATIO
(FSHD/NORMAL)

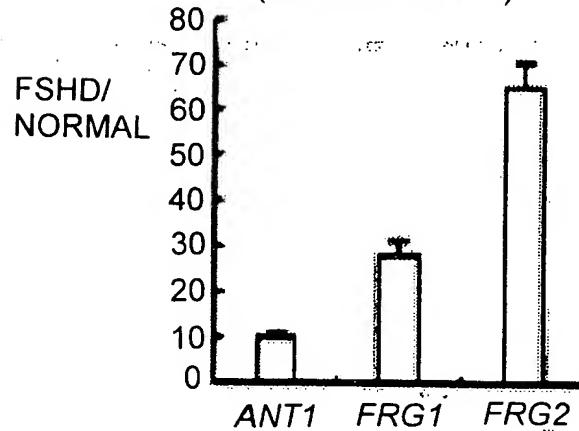


FIG. 1A

BEST AVAILABLE COPY

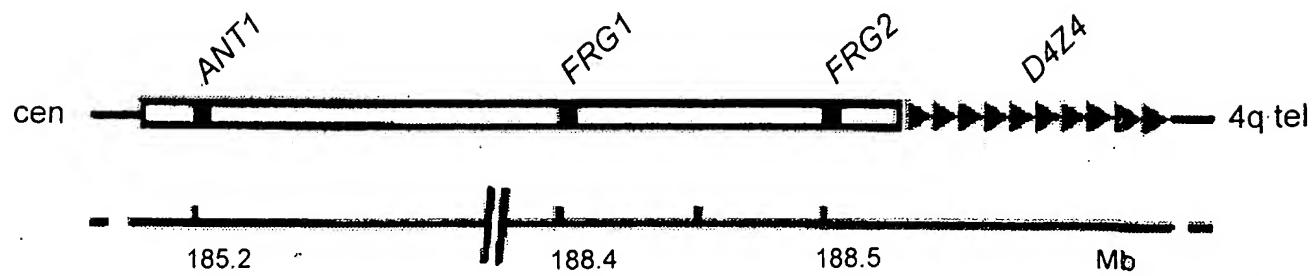


FIG. 1B

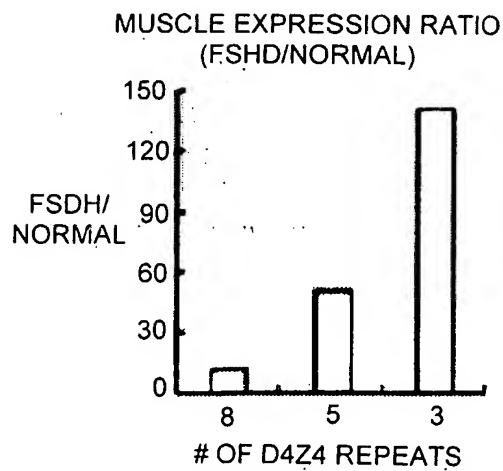
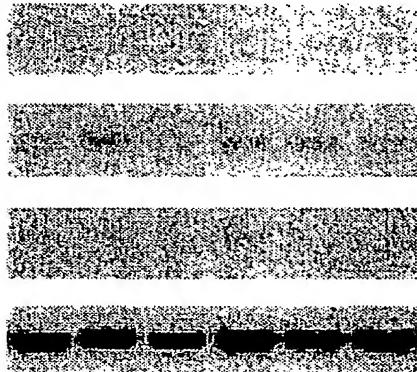


FIG. 1F

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Applicant(s): Tupler et al.

METHODS OF DETECTING AND TREATING
FACIOSCAPULOHUMORAL MUSCULAR DYSTROPHYNORMAL 1
NORMAL 2
NORMAL 3
FSHD 1
FSHD 2
FSHD 3

FRG 2



FRG 1



ANT 1



GAPDH

PBL

FIG. 1C

NORMAL 4
NORMAL 5
DMD 1
DMD 2
ALS 1
ALS 2
LGMD

MUSCLE

FIG. 1D

NORMAL 6
NORMAL 7
FSHD 4
FSHD 5
FSHD 6
FSHD 1
FSHD 8
FSHD 9

FRG2



GAPDH

>11 >11 8 8 5 5 3 3

of D4Z4 repeats

MUSCLE

FIG. 1E

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**METHODS OF DETECTING AND TREATING
FACIOSCAPULOHUMORAL MUSCULAR DYSTROPHY**

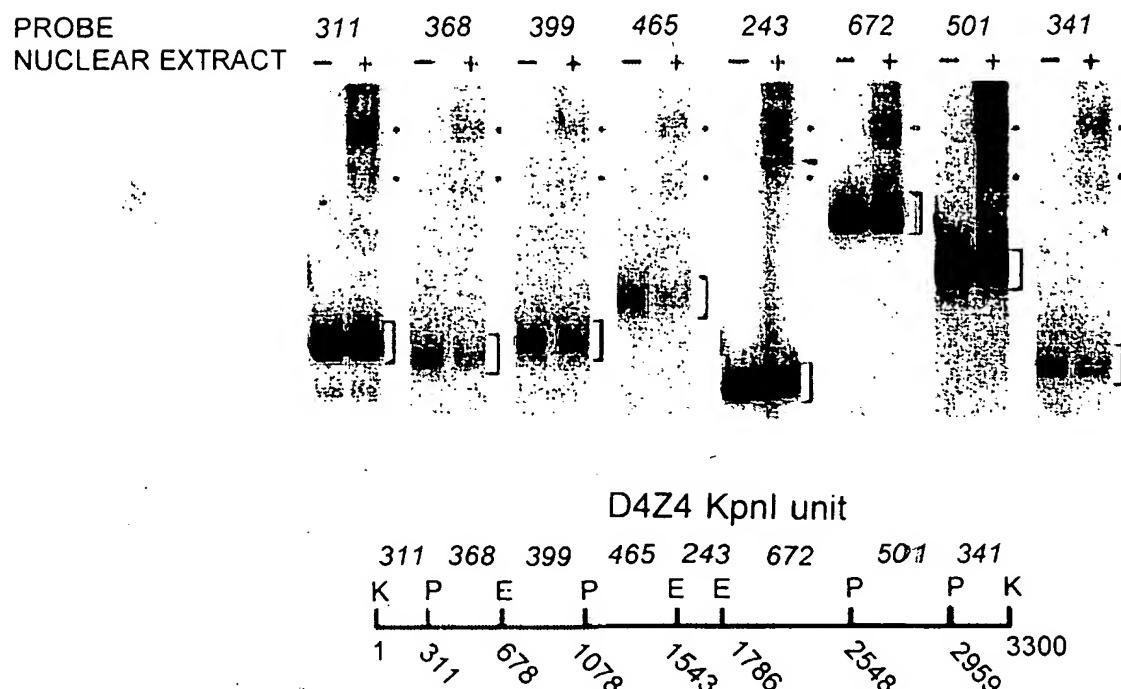


FIG. 2A

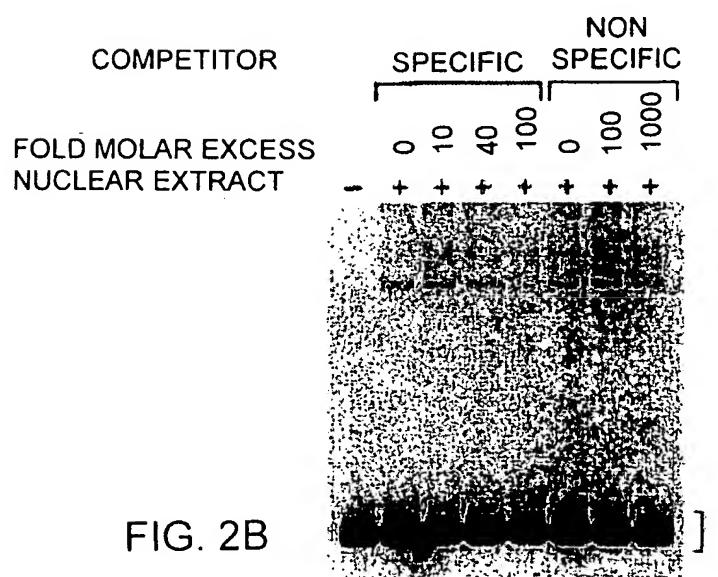


FIG. 2B

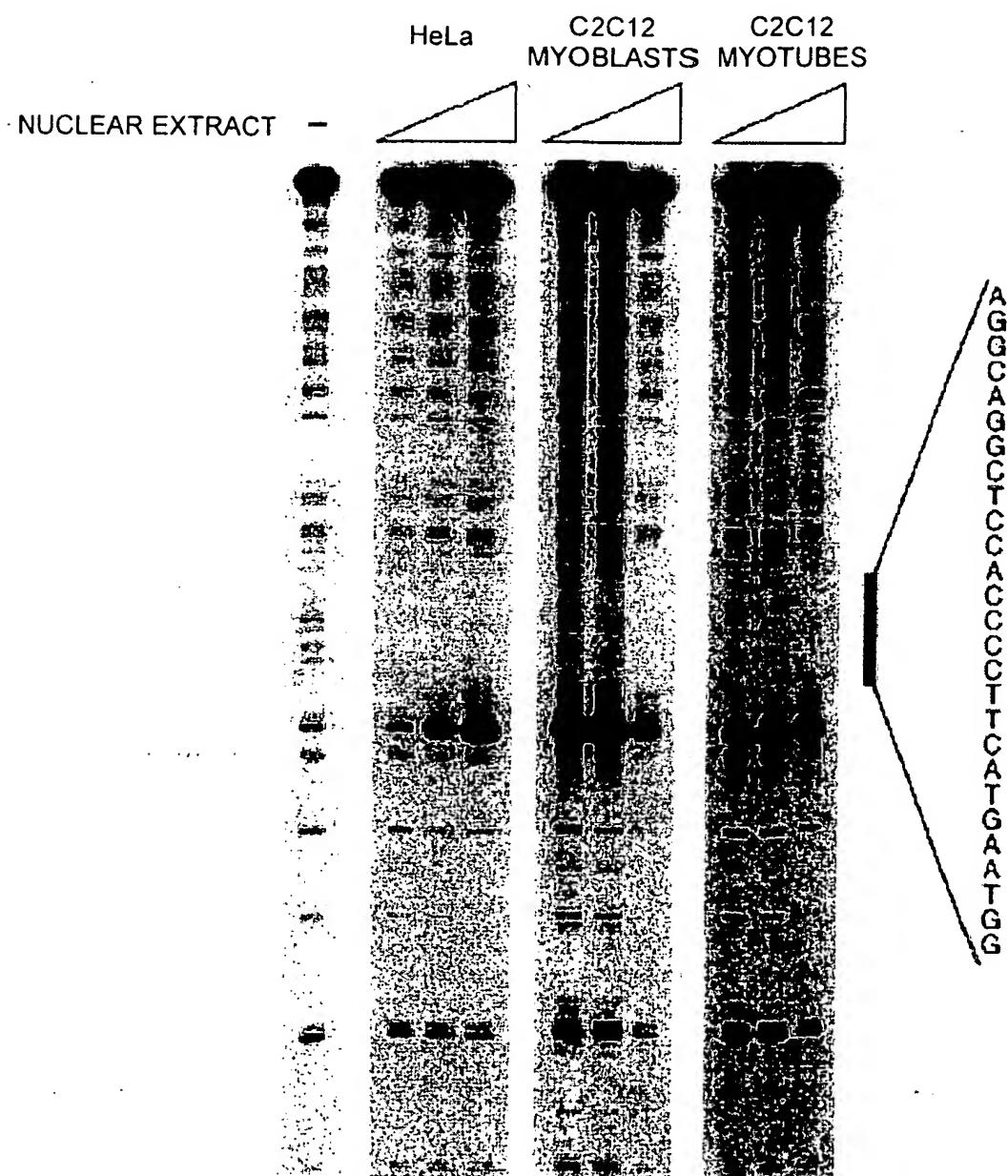


FIG. 2C

METHODS OF DETECTING AND TREATING
FACIOSCAPULOHUMORAL MUSCULAR DYSTROPHY

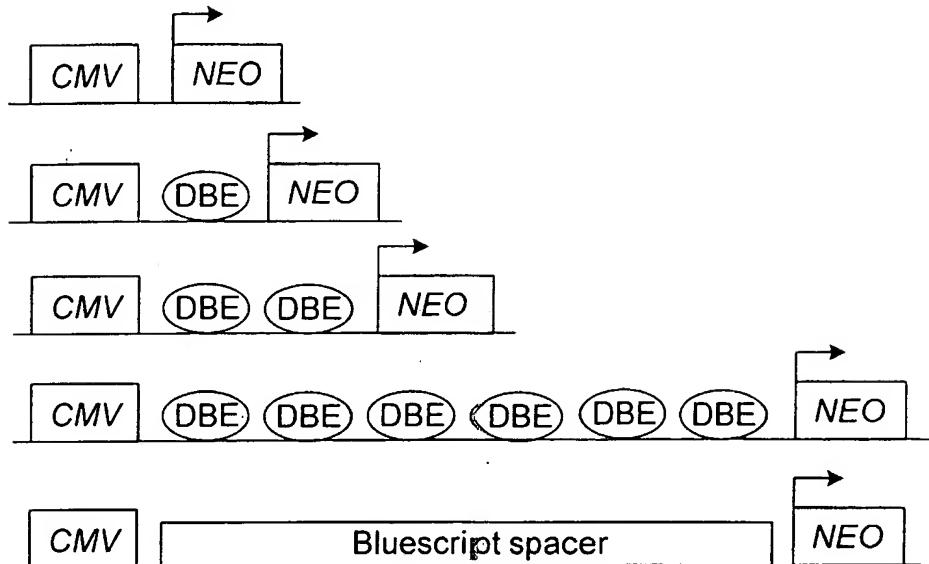


FIG. 3A

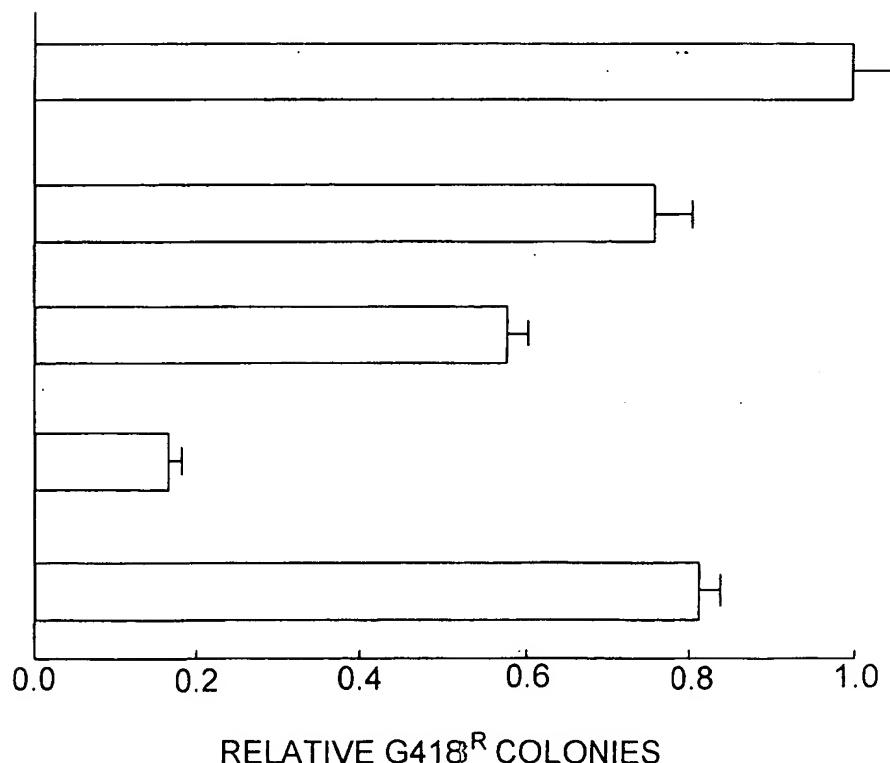


FIG. 3B

METHODS OF DETECTING AND TREATING
FACIOSCAPULOHUMORAL MUSCULAR DYSTROPHY

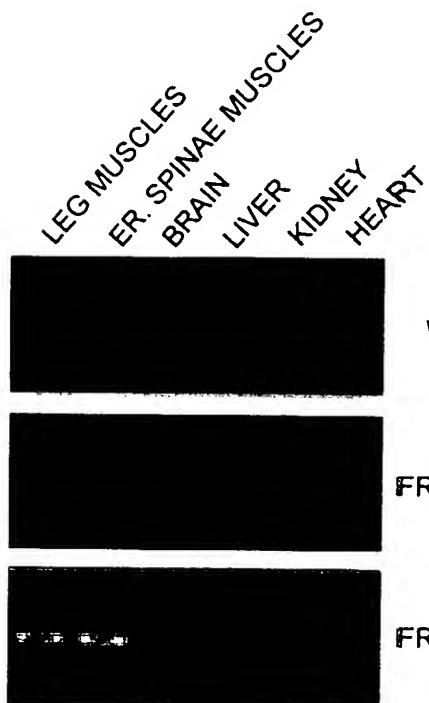


FIG. 4A

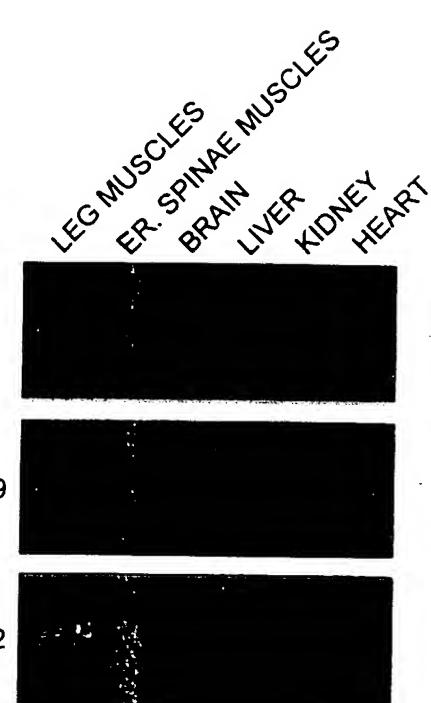


FIG. 4B

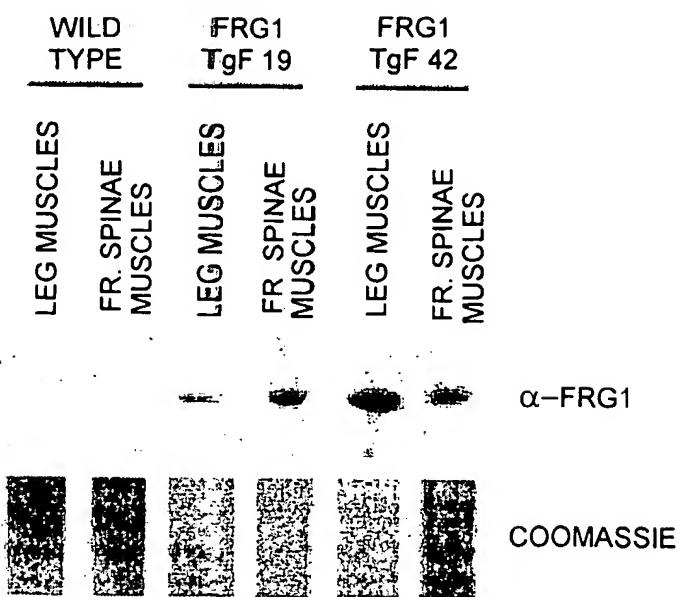
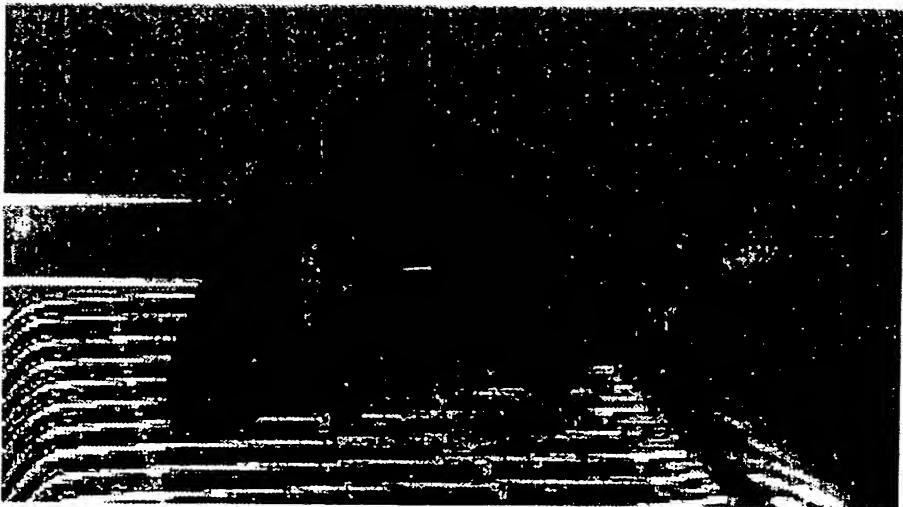


FIG. 4C



WILD TYPE

FIG. 4D



HAS-FRG1

FIG. 4E

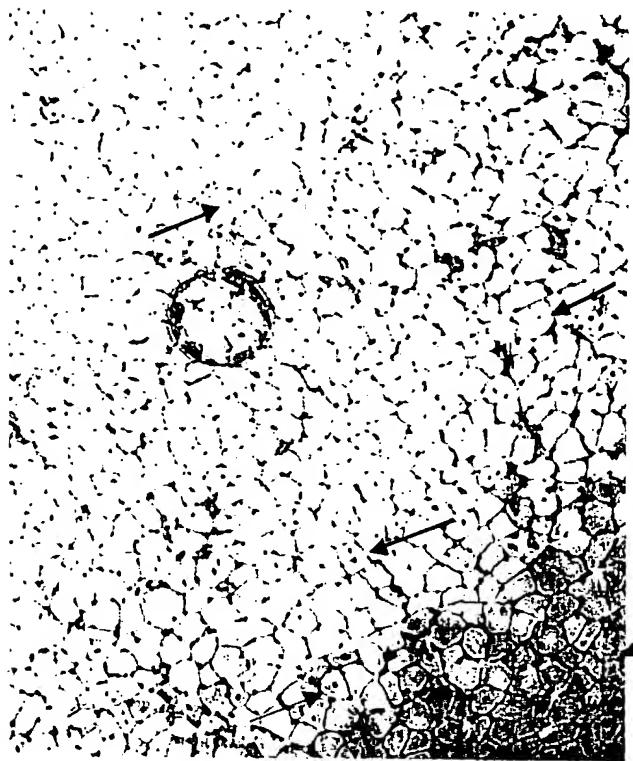


FIG. 5B

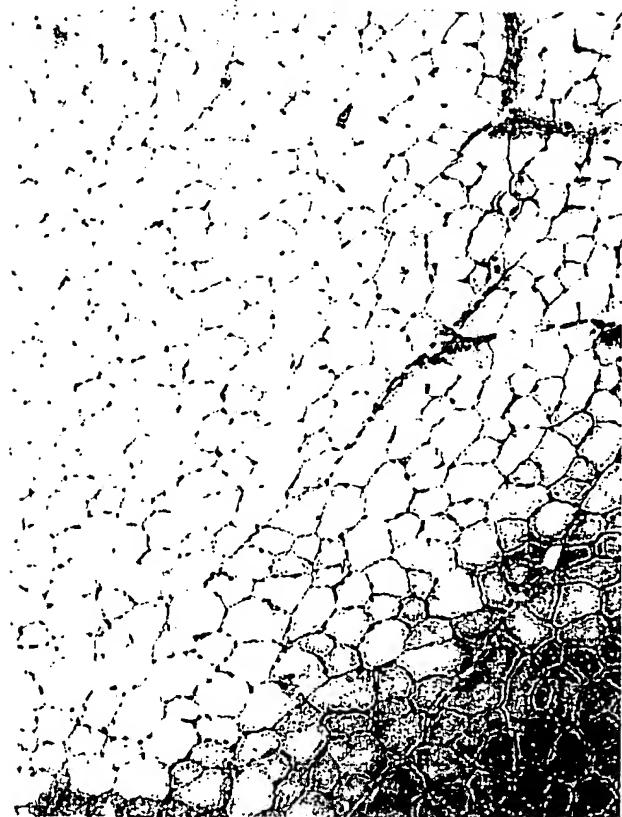


FIG. 5A

METHODS OF DETECTING AND TREATING
FACIOSCAPULOHUMORAL MUSCULAR DYSTROPHY

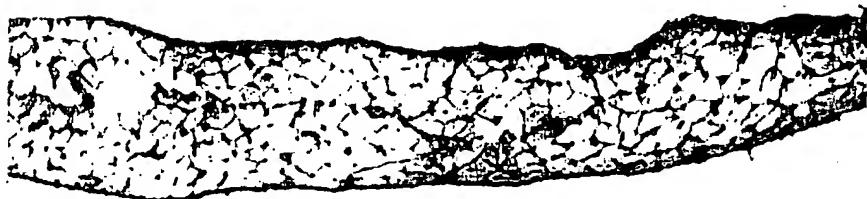


FIG. 6B

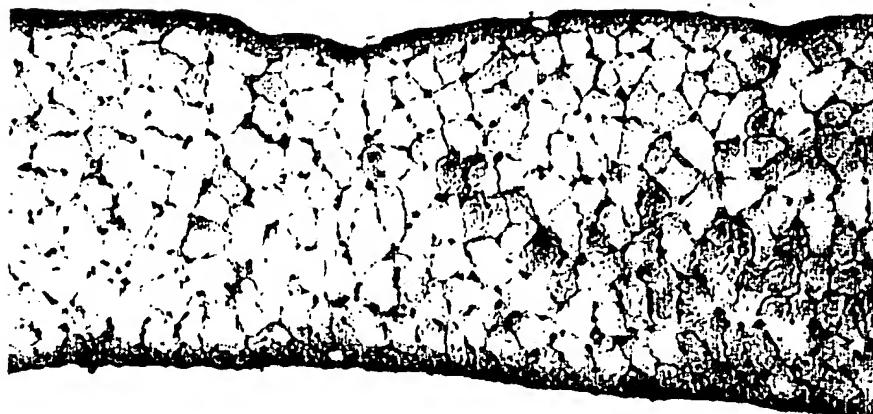


FIG. 6A

METHODS OF DETECTING AND TREATING
FACIOSCAPULOHUMORAL MUSCULAR DYSTROPHY

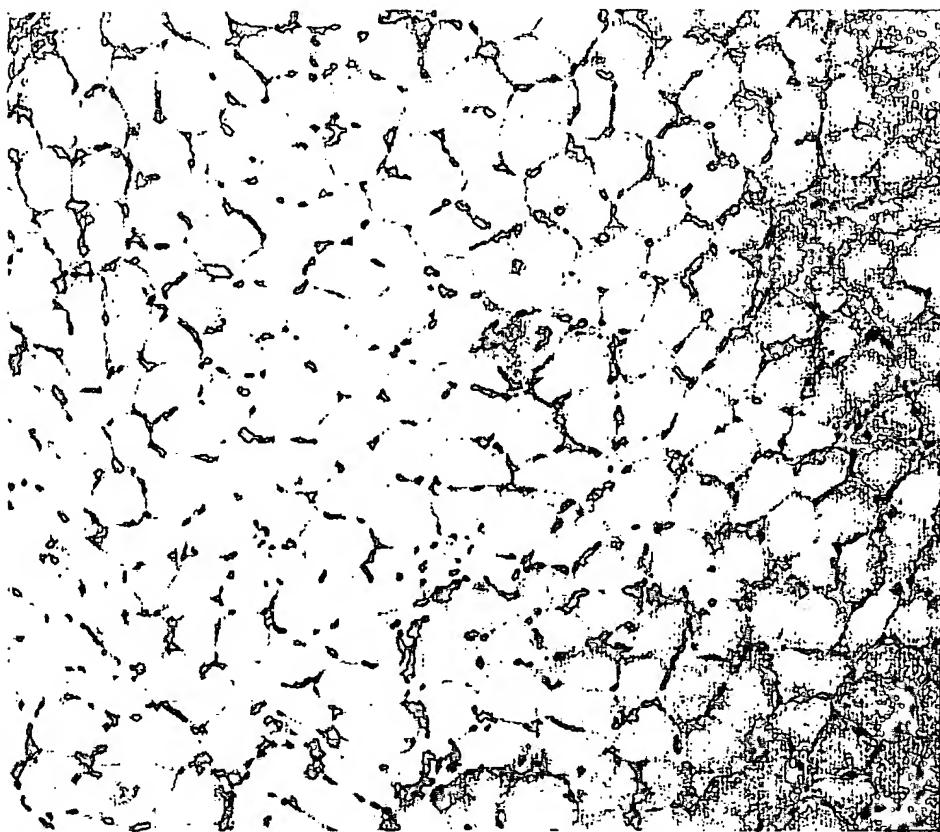


FIG. 7B

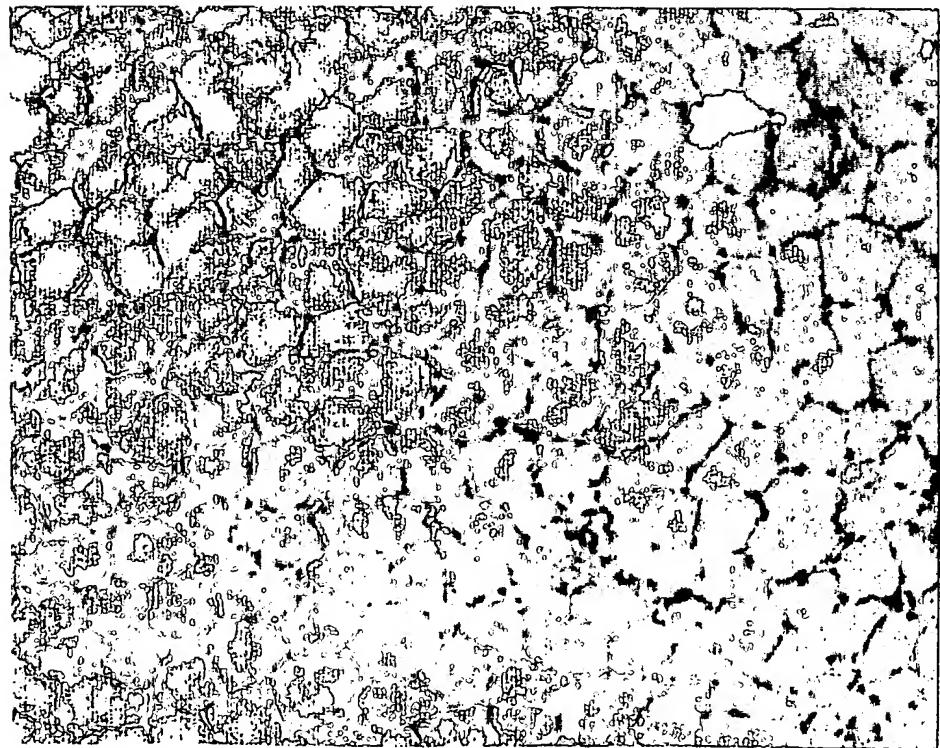
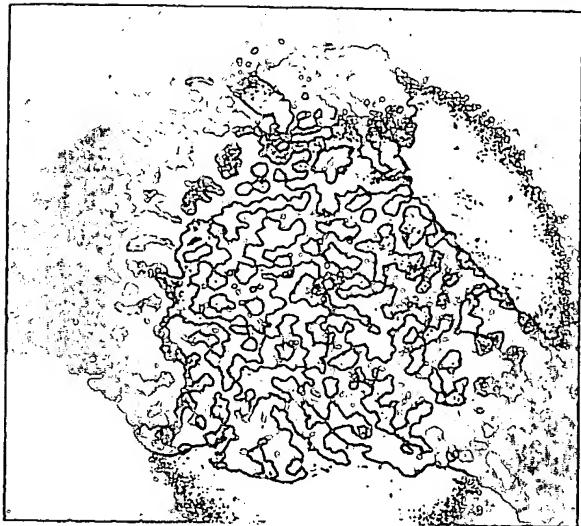


FIG. 7A



α -type 1

FIG. 8C



α -type 2A

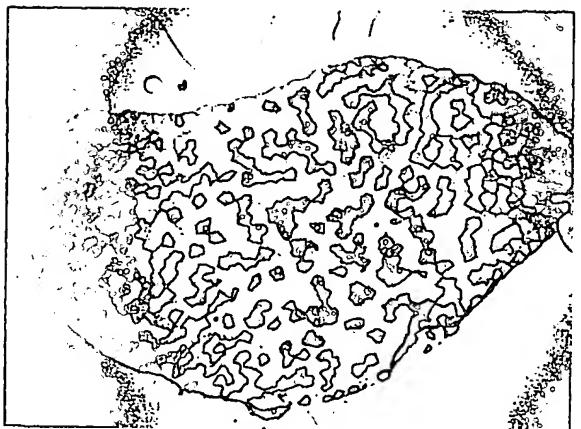


FIG. 8A

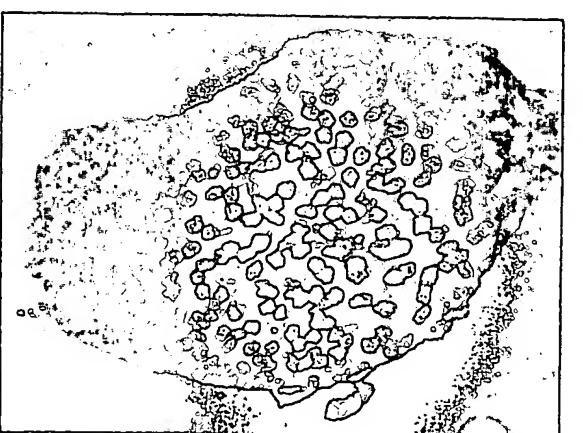


FIG. 8B

FIG. 8D

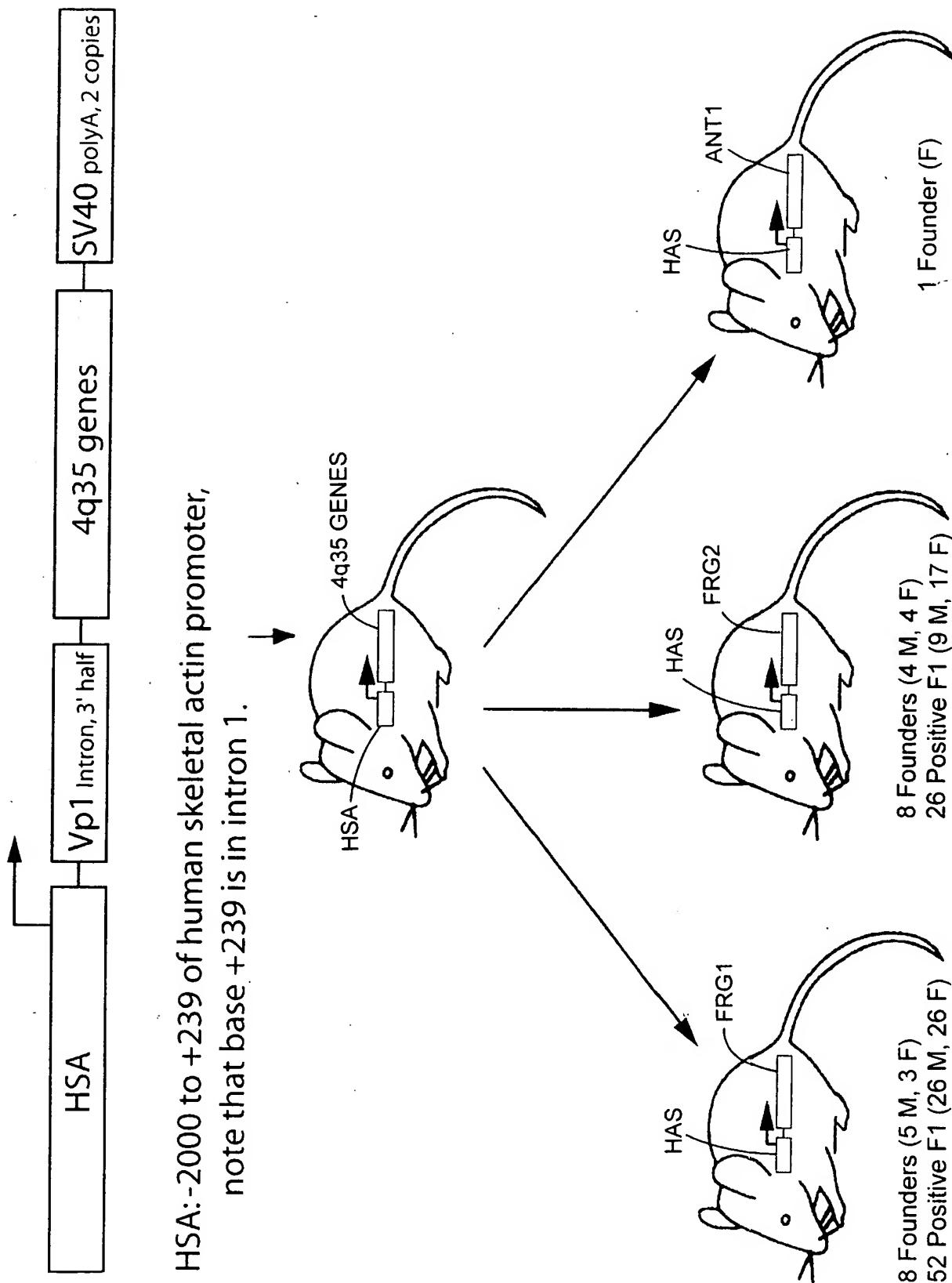


FIG. 9

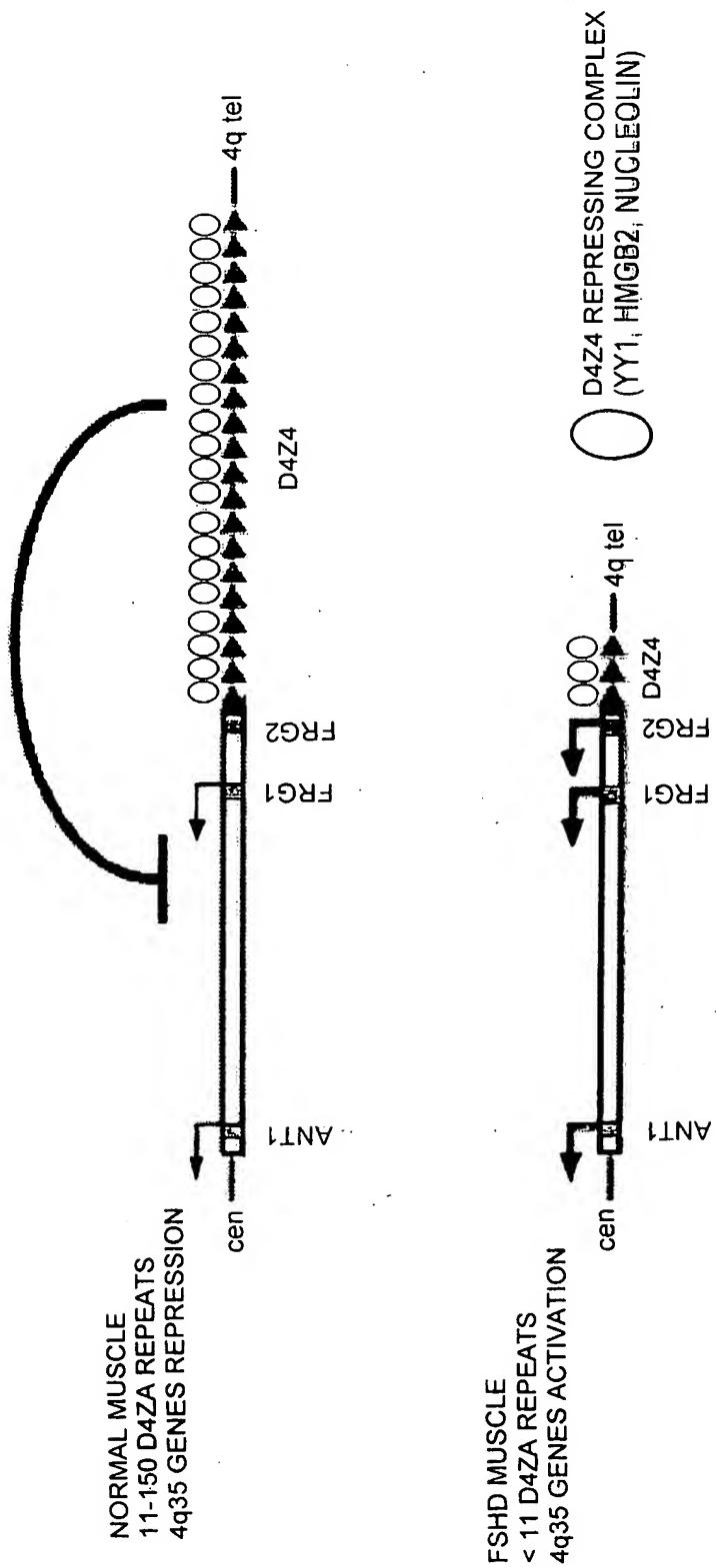
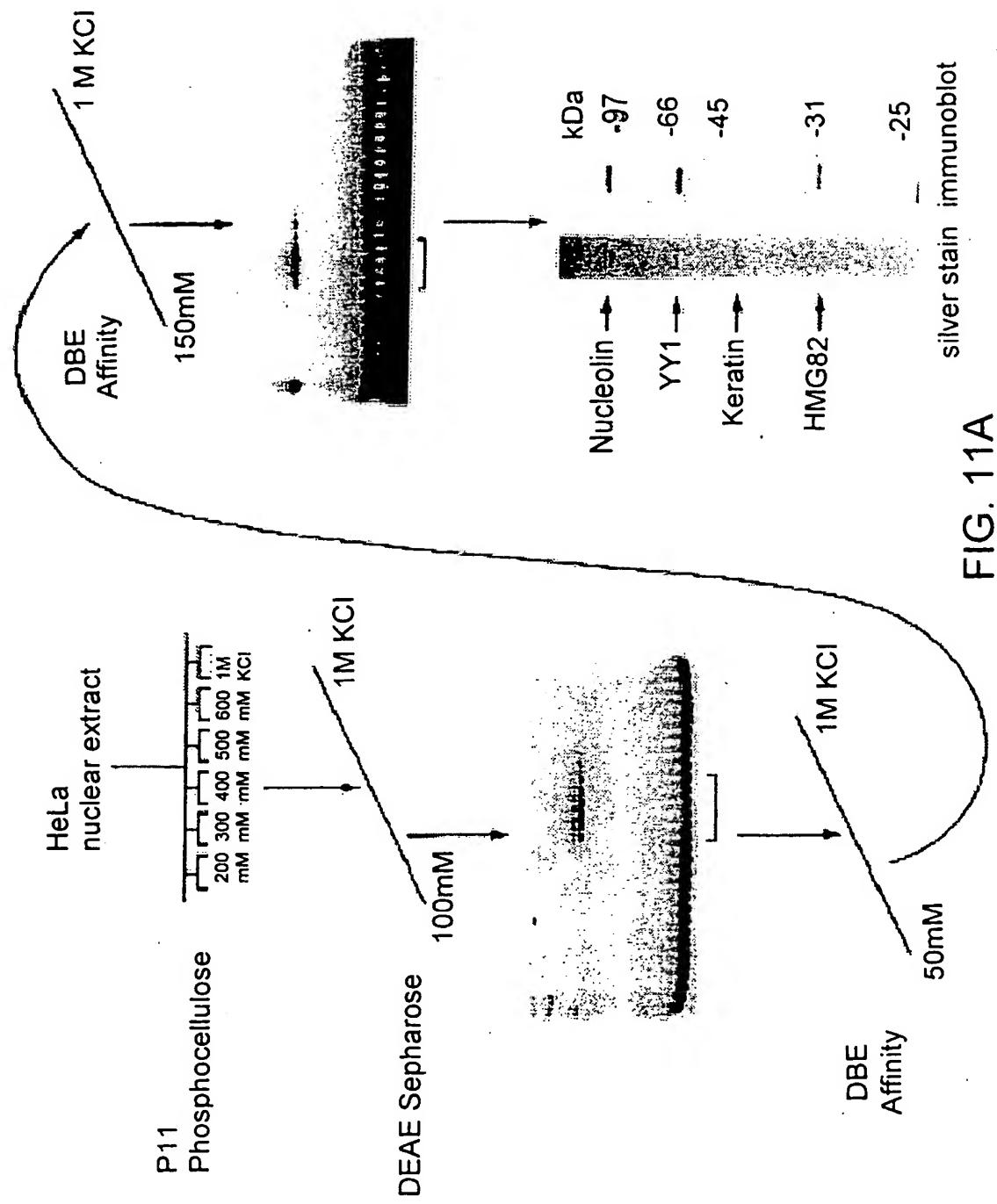


FIG. 10

METHODS OF DETECTING AND TREATING
FACIOSCAPULOHUMORAL MUSCULAR DYSTROPHY



METHODS OF DETECTING AND TREATING
FACIOSCAPULOHUMORAL MUSCULAR DYSTROPHY

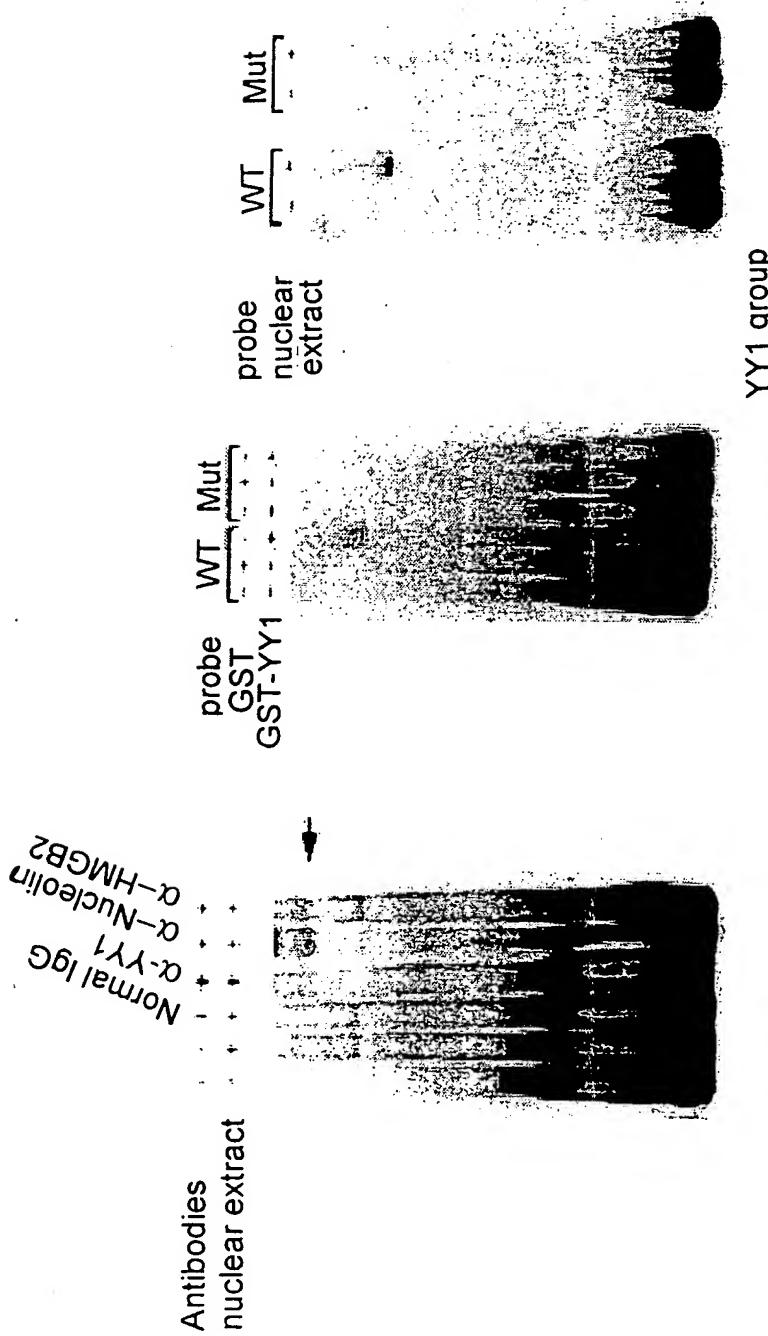


FIG. 11B

YY1 group
WT sequence: CTCACCCGCCATTCATGAAGGGGGTGGAGGCCCTGCCTG
Mut sequence: CTCACCCGCCGCCATGAAGGGGGTGGAGGCCCTGCCTG

FIG. 11C

METHODS OF DETECTING AND TREATING
FACIOSCAPULOHUMORAL MUSCULAR DYSTROPHY

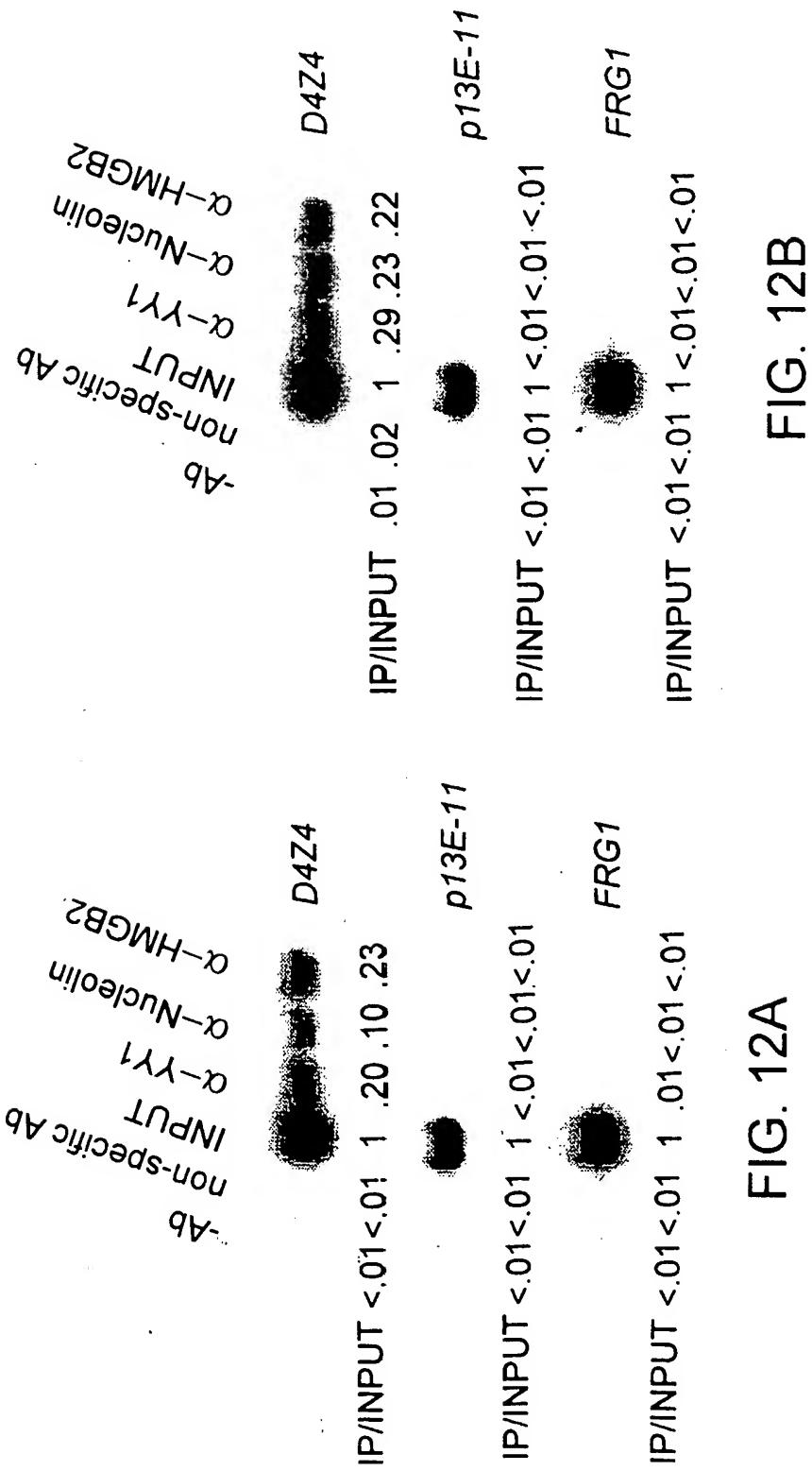


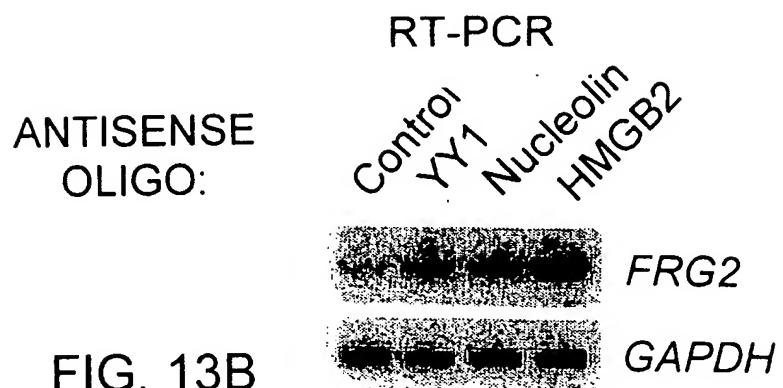
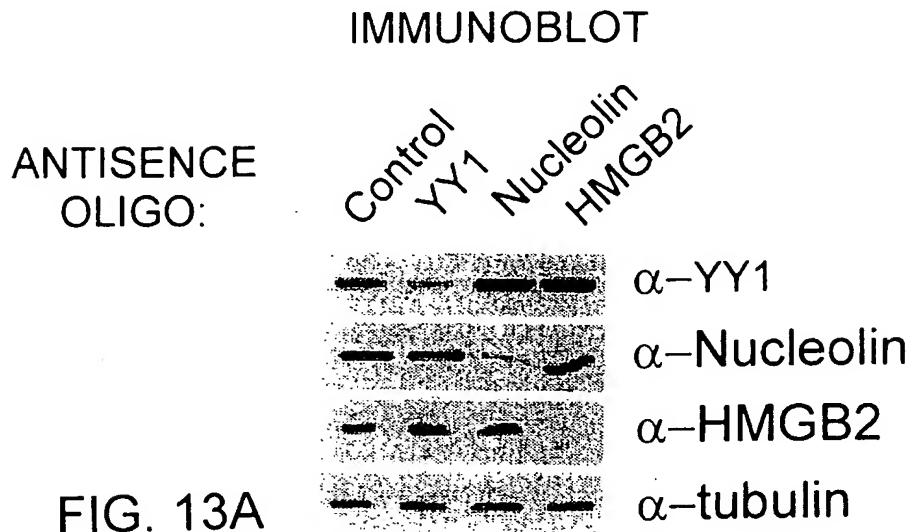
FIG. 12A

FIG. 12B

METHODS OF DETECTING AND TREATING
FACIOSCAPULOHUMORAL MUSCULAR DYSTROPHY



FIG. 12C



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